

Aquaculture America 2003 Louisville, Kentucky

# **Need and Funding**

 Immersion therapy would be useful for fish that do not or will not eat prepared diets

 Multistate Conservation Grant funded through IAFWA (3 years)





# Technical sections required for an approval

- Product Chemistry
- Efficacy
- Target animal safety
- Mammalian toxicology
- Human food safety
- Environmental safety



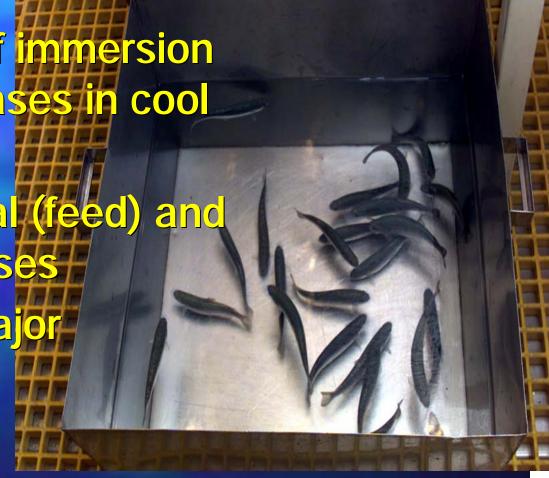


# Objectives of project

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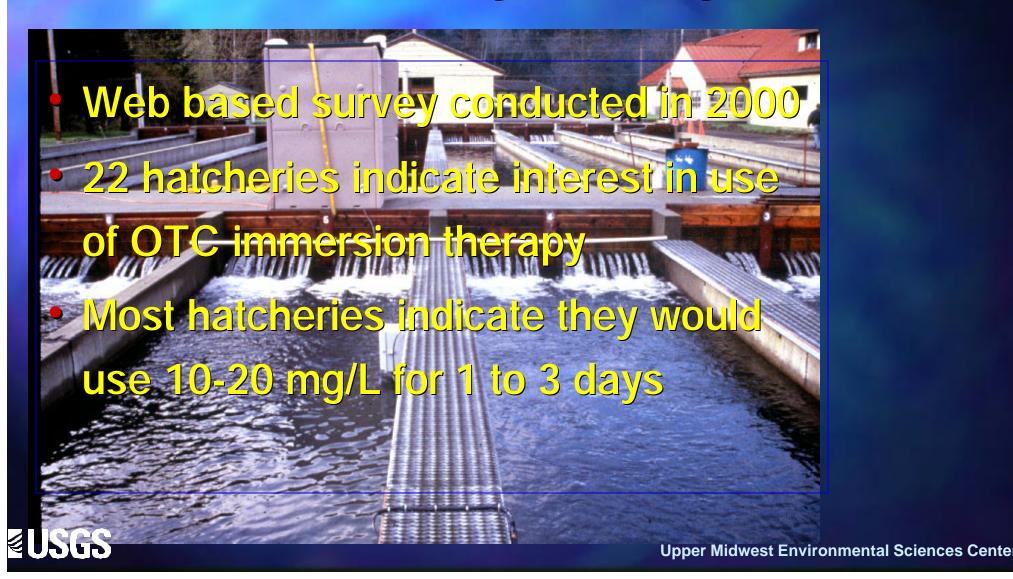
 Data available from oral (feed) immersion (marking) uses

Efficacy data will be major requirement





## Hatchery survey



# Completed and planned studies

# STUDY PLAN

- •Data call-in
- Develop and validate analytical method
- Pivotal efficacy
- Pilot studies to mitigate discharge
- Assessment of dosage and residue levels

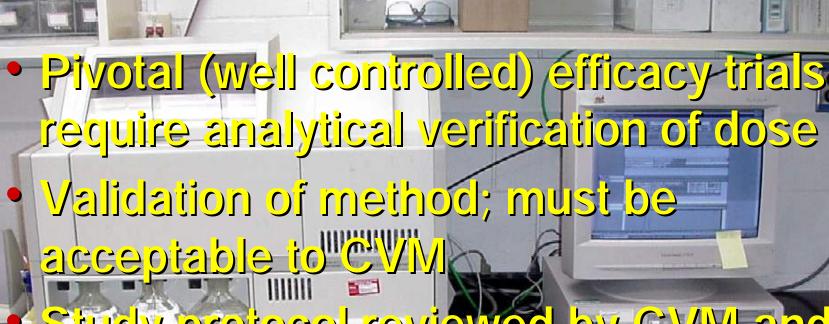


#### Data Call-In

- Data call-in for all holders of VADs for
- OTC Immersion (2002)
- Summary report runnitted to Center for Veterinary Mark to Cetter Oct. 2002
- Contains plementary data mostly for white sturgeon and escocids







Study protocol reviewed by CVIVI and study underway

LABELLING SUPPLIES



## Pivotal efficacy

- Pivotal efficacy trials planned over next
  2 years
- Targeting bacterial disease in cool and warm water fish
- Trials require replicates of treated and control groups



## **Discharge**

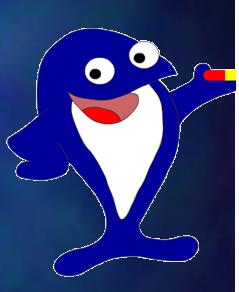
- Practical methods for removal of OTC from bath water
- Can avoid additional environmental safety requirements if OTC is removed
- Adsorbed to charcoal, clay or divalent ions; degradation with temperature or pH



# Assessment of dosing and residue levels

 Generally assumed OTC immersion only effective for external infections

 Some assessment of residue levels at different doses will be made for effectiveness on systemic bacterial diseases





### Summary

- Efficacy data call-in submitted to CVM likely contains only supplementary data
- Analytical method validation to verify dose in efficacy trials
- Plan to conduct pivotal efficacy trials
- Assess mitigation and concentration in fish tissue

